



FORM PTO-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 1 of 21

ATTORNEY DOCKET NO.

SERIAL NO.

5074A-000009 DVC

10/664,646

APPLICANT

Kessman, et al

FILING DATE

GROUP

September 19, 2003

3737

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	<i>A. J.</i>	Re. 35,025	8/1995	Anderton		
2.		1,576,781	03/1926	Phillips		
3.		1,735,726	11/1929	Bornhardt		
4.		2,407,845	09/1946	Nemeyer		
5.		2,650,588	09/1953	Drew		
6.		2,697,433	12/1954	Sehnder		
7.		3,016,899	01/1962	Stenvall		
8.		3,017,887	01/1962	Heyer		
9.		3,061,936	11/1962	Dobbeleer		
10.		3,073,310	01/1963	Mocarski		
11.		3,294,083	12/1966	Alderson		
12.		3,367,326	02/1968	Frazier		
13.		3,439,256	04/15/1969	Kähne et al.		
14.		3,577,160	05/1971	White		
15.		3,674,014	07/04/1972	Tillander		
16.		3,702,935	11/1972	Carey et al.		
17.		3,704,707	12/1972	Halloran		
18.		3,868,565	02/25/1975	Kuipers		
19.		3,941,127	03/1976	Froning		
20.		4,037,592	07/1977	Kronner		
21.	<i>A. J.</i>	4,052,620	10/1977	Brunnett		

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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 2 of 21

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.	<i>A.D.</i>	4,054,881	10/18/1977	Raab		
23.		4,117,337	09/26/1978	Staats		
24.		4,173,228	11/06/1979	Van Steenwyk et al.		
25.		4,202,349	05/1980	Jones		
26.		4,262,306	04/14/1981	Renner		
27.		4,287,809	09/08/1981	Egli et al.		
28.		4,314,251	02/02/1982	Raab		
29.		4,317,078	02/23/1982	Weed et al.		
30.		4,328,813	05/1982	Ray		
31.		4,339,953	07/20/1982	Iwasaki		
32.		4,358,856	11/09/1982	Stivender et al.		
33.		4,368,536	01/1983	Pfeiler		
34.		4,396,885	08/02/1983	Constant		
35.		4,403,321	09/1983	DiMarco		
36.		4,418,422	11/1983	Richter et al.		
37.		4,422,041	12/20/1983	Lienau		
38.		4,431,005	02/14/1984	McCormick		
39.		4,485,815	12/1984	Amplatz		
40.		4,543,959	10/01/1985	Sepponen		
41.	<i>A.D.</i>	4,548,208	10/22/1985	Niemi		

Examiner:

Michael J. O'Brien

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
42.	<i>Q</i>	4,572,198	02/25/1986	Codrington		
43.		4,584,577	04/22/1986	Temple		
44.		4,613,866	09/23/1986	Blood		
45.		4,618,978	10/21/1986	Cosman		
46.		4,621,628	11/1986	Bludermann		
47.		4,625,718	12/1986	Olerud et al.		
48.		4,642,786	02/10/1987	Hansen		
49.		4,645,343	02/1987	Stockdale et al.		
50.		4,649,504	03/10/1987	Krouglicof et al.		
51.		4,651,732	03/24/1987	Frederick		
52.		4,653,509	03/1987	Oloff et al.		
53.		4,673,352	06/1987	Hansen		
54.		4,706,665	11/17/1987	Gouda		
55.		4,719,419	01/12/1988	Dawley		
56.		4,722,336	02/1988	Kim et al.		
57.		4,727,565	02/23/1988	Ericson		
58.		4,737,794	04/12/1988	Jones		
59.		4,737,921	04/12/1988	Goldwasser et al.		
60.		4,750,487	06/1988	Zanetti		
61.	<i>Q</i>	4,771,787	09/20/1988	Wurster et al.		

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
62.	<i>Q Q</i>	4,793,355	12/1988	Crum et al.		
63.		4,797,907	01/1989	Anderton		
64.		4,803,976	02/1989	Frigg et al.		
65.		4,821,206	04/11/1989	Arora		
66.		4,836,778	06/06/1989	Baumrind et al.		
67.		4,845,771	07/1989	Wislocki et al.		
68.		4,849,692	07/18/1989	Blood		
69.		4,862,893	09/05/1989	Martinelli		
70.		4,889,526	12/26/1989	Rauscher et al.		
71.		4,905,698	03/06/1990	Strohl, Jr. et al.		
72.		4,923,459	05/1990	Nambu		
73.		4,931,056	06/1990	Ghajar et al.		
74.		4,945,305	07/31/1990	Blood		
75.		4,951,653	08/1990	Fry et al.		
76.		4,977,655	12/18/1990	Martinelli		
77.		4,989,608	02/05/1991	Ratner		
78.		5,002,058	03/26/1991	Martinelli		
79.		5,005,592	04/09/1991	Cartmell		
80.		5,013,317	05/1991	Cole et al.		
81.	<i>Q Q</i>	5,016,639	05/21/1991	Allen		

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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
82.	<i>A - D</i>	5,027,818	07/02/1991	Bova et al.		
83.		5,030,196	07/09/1991	Inoue		
84.		5,030,222	07/1991	Calandrucchio et al.		
85.		5,031,203	07/1991	Trecha		
86.		5,042,486	08/27/1991	Pfeiler et al.		
87.		5,050,608	09/24/1991	Watanabe et al.		
88.		5,057,095	10/15/1991	Fabian		
89.		5,059,789	10/22/1991	Salcudean		
90.		5,079,699	01/07/1992	Tuy et al.		
91.		5,086,401	02/04/1992	Glassman et al.		
92.		5,099,845	03/31/1992	Besz et al.		
93.		5,105,829	04/21/1992	Fabian et al.		
94.		5,107,839	04/28/1992	Houdek et al.		
95.		5,107,843	04/1992	Aarnio, et al.		
96.		5,107,862	04/28/1992	Fabian et al		
97.		5,109,194	04/28/1992	Cantaloube		
98.		5,152,288	10/06/1992	Hoenig et al.		
99.		5,178,621	01/1993	Cook et al.		
100.		5,187,475	02/16/1993	Wagener et al.		
101.	<i>A - D</i>	5,188,126	02/23/1993	Fabian et al		

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Date Considered:

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
102.	<i>A. I.</i>	5,190,059	03/02/1993	Fabian et al		
103.		5,197,476	03/30/1993	Nowacki et al.		
104.		5,197,965	03/1993	Cherry et al.		
105.		5,198,768	03/30/1993	Keren		
106.		5,211,165	05/18/1993	Dumoulin et al.		
107.		5,211,176	05/1993	Ishiguro et al.		
108.		5,212,720	05/1993	Landi et al.		
109.		5,214,615	05/25/1993	Bauer		
110.		5,219,351	06/1993	Teubner et al.		
111.		5,228,442	07/20/1993	Imran		
112.		5,233,990	08/1993	Barnea		
113.		5,237,996	08/24/1993	Waldman et al.		
114.		5,257,636	11/02/1993	White		
115.		5,265,611	11/30/1993	Hoenig et al.		
116.		5,269,759	12/14/1993	Hernandez et al.		
117.		5,273,025	12/28/1993	Sakiyama et al.		
118.		5,274,551	12/28/1993	Corby, Jr.		
119.		5,291,199	03/01/1994	Overman et al		
120.		5,297,549	03/29/1994	Beatty et al.		
121.	<i>A. I.</i>	5,305,091	04/1994	Gelbart et al.		

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
122.	<i>E. I.</i>	5,315,630	05/24/1994	Sturm et al.		
123.		5,316,024	05/31/1994	Hirschi et al.		
124.		5,318,025	06/07/1994	Dumoulin et al.		
125.		5,320,111	06/1994	Livingston		
126.		5,325,728	07/05/1994	Zimmerman et al.		
127.		5,325,873	07/05/1994	Hirschi et al.		
128.		5,329,944	07/19/1994	Fabian et al		
129.		5,333,168	07/1994	Fernandes et al.		
130.		5,353,795	10/11/1994	Souza et al.		
131.		5,353,800	10/11/1994	Pohndorf et al		
132.		5,353,807	10/11/1994	DeMarco		
133.		5,368,030	11/29/1994	Zinreich et al.		
134.		5,375,596	12/27/1994	Twiss et al.		
135.		5,385,146	01/31/1995	Goldreyer		
136.		5,385,148	01/31/1995	Lesh et al.		
137.		5,386,828	02/07/1995	Owens et al.		
138.		5,389,101	02/1995	Heilbrun et al.		
139.		5,394,457	02/1995	Leibinger et al.		
140.		5,399,146	03/21/1995	Nowacki et al.		
141.	<i>E. I.</i>	5,400,384	03/1995	Fernandes et al.		

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
142.	<i>Q. S.</i>	5,408,409	04/1995	Glassman et al.		
143.		5,417,210	05/23/1995	Funda et al.		
144.		5,419,325	05/30/1995	Dumoulin et al.		
145.		5,425,367	06/20/1995	Shapiro et al.		
146.		5,425,382	06/20/1995	Golden et al.		
147.		5,426,683	06/1995	O'Farrell, Jr., et al.		
148.		5,426,687	06/1995	Goodall et al.		
149.		5,427,097	06/1995	Depp		
150.		5,429,132	07/04/1995	Guy et al.		
151.		5,433,198	07/18/1995	Desai		
152.		5,437,277	08/01/1995	Dumoulin et al.		
153.		5,443,066	08/22/1995	Dumoulin et al.		
154.		5,444,756	08/1995	Pai et al.		
155.		5,445,144	08/29/1995	Wodicka et al.		
156.		5,445,150	08/29/1995	Dumoulin et al.		
157.		5,445,166	08/29/1995	Taylor		
158.		5,448,610	09/1995	Yamamoto et al.		
159.		5,453,686	09/26/1995	Anderson		
160.		5,456,718	10/10/1995	Szymaitis		
161.	<i>Q. S.</i>	5,458,718	10/17/1995	Venkitachalam		

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
162.	<i>E. Q.</i>	5,464,446	11/1995	Dreessen et al.		
163.		5,478,341	12/1995	Cook et al.		
164.		5,478,343	12/1995	Ritter		
165.		5,485,849	01/23/1996	Panescu et al.		
166.		5,487,391	01/30/1996	Panescu		
167.		5,487,729	01/30/1996	Avellanet et al.		
168.		5,487,757	01/30/1996	Truckai et al.		
169.		5,490,196	02/06/1996	Rudich et al.		
170.		5,503,416	04/1996	Aoki et al.		
171.		5,513,637	05/07/1996	Twiss et al.		
172.		5,542,938	08/06/1996	Avellanet et al.		
173.		5,543,951	08/06/1996	Moehrmann		
174.		5,546,940	08/20/1996	Panescu et al.		
175.		5,546,949	08/20/1996	Frazin et al.		
176.		5,551,429	09/1996	Fitzpatrick et al.		
177.		5,573,533	11/12/1996	Strul		
178.		5,575,794	11/1996	Walus et al.		
179.		5,583,909	12/1996	Hanover		
180.		5,588,430	12/31/1996	Bova et al.		
181.	<i>E. Q.</i>	5,595,193	01/1997	Walus et al.		

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U.S. PATENT DOCUMENTS

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182.	<i>Q. D.</i>	5,596,228	01/1997	Anderton et al.		
183.		5,600,330	02/04/1997	Blood		
184.		5,617,462	04/1997	Spratt		
185.		5,617,857	04/08/1997	Chader et al.		
186.		5,619,261	04/1997	Anderton		
187.		5,622,169	04/22/1997	Golden et al.		
188.		5,627,873	05/1997	Hanover et al.		
189.		5,628,315	05/13/1997	Vilsmeier et al.		
190.		5,630,431	05/20/1997	Taylor		
191.		5,636,644	06/10/1997	Hart et al		
192.		5,640,170	06/17/1997	Anderson		
193.		5,642,395	06/1997	Anderton et al.		
194.		5,643,268	07/01/1997	Vilsmeier et al.		
195.		5,645,065	07/08/1997	Shapiro et al.		
196.		5,647,361	07/15/1997	Damadian		
197.		5,664,001	09/1997	Tachibana et al.		
198.		5,674,296	10/07/1997	Bryan et al.		
199.		5,681,260	10/28/1997	Ueda et al		
200.		5,682,886	11/04/1997	Delp et al.		
201.	<i>Q. D.</i>	5,690,108	11/1997	Chakeres		

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U.S. PATENT DOCUMENTS

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202.	<i>A.S.</i>	5,695,500	12/09/1997	Taylor et al.		
203.		5,702,406	12/30/1997	Vilsmeier et al.		
204.		5,711,299	01/27/1998	Manwaring et al.		
205.		5,713,946	02/03/1998	Ben-Haim		
206.		5,715,836	02/10/1998	Kliegis et al.		
207.		5,727,552	03/17/1998	Ryan		
208.		5,727,553	03/1998	Saad		
209.		5,730,130	03/1998	Fitzpatrick et al.		
210.		5,735,278	04/07/1998	Hoult et al.		
211.		5,741,214	04/21/1998	Ouchi et al.		
212.		5,742,394	04/1998	Hansen		
213.		5,744,953	04/28/1998	Hansen		
214.		5,749,362	05/12/1998	Funda et al.		
215.		5,749,835	05/12/1998	Glantz		
216.		5,755,725	05/26/1998	Druais		
217.		5,758,667	06/02/1998	Slettenmark		
218.		5,767,699	06/16/1998	Hansen et al.		
219.		5,769,789	06/23/1998	Wang et al.		
220.		5,775,322	07/07/1998	Silverstein et al		
221.	<i>A.S.</i>	5,782,765	07/21/1998	Jonkman		

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U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
222.	<i>A. D.</i>	5,792,055	08/11/1998	McKinnon		
223.		5,795,294	08/18/1998	Luber et al.		
224.		5,799,055	08/1998	Peshkin et al.		
225.		5,799,099	08/1998	Wang et al.		
226.		5,800,352	09/01/1998	Ferre et al.		
227.		5,800,535	09/01/1998	Howard, III		
228.		5,802,719	09/1998	O'Farrell, Jr., et al.		
229.		5,803,089	09/08/1998	Ferre et al.		
230.		5,807,252	9/15/1998	Hassfeld et al.		
231.		5,810,728	09/22/1998	Kuhn		
232.		5,810,735	09/22/1998	Halperin et al		
233.		5,823,192	10/1998	Kalend et al.		
234.		5,823,958	10/20/1998	Truppe		
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236.		5,831,260	11/03/1998	Hansen		
237.		5,834,759	11/10/1998	Glossop		
238.		5,840,024	11/24/1998	Taniguchi et al.		
239.		5,843,076	12/1/1998	Webster, Jr. et al.		
240.		5,865,846	02/02/1999	Bryan et al.		
241.	<i>A. D.</i>	5,868,674	02/09/1999	Glowinski et al.		

Examiner:

A. D. Brown

Date Considered:

12/10/04

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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243.		5,871,487	02/16/1999	Warner et al.		
244.		5,884,410	03/1999	Prinz		
245.		5,891,157	04/06/1999	Day et al.		
246.		5,904,691	05/18/1999	Barnett et al.		
247.		5,923,727	07/1999	Navab		
248.		5,928,248	7/27/1999	Acker		
249.		5,938,603	8/17/1999	Ponzi		
250.		5,938,694	08/17/1999	Jaraczewski et al.		
251.		5,950,629	09/14/1999	Taylor et al.		
252.		5,951,475	09/14/1999	Gueziec et al.		
253.		5,954,647	09/21/1999	Bova et al.		
254.		5,954,796	10/12/1999	Imran		
255.		5,967,980	10/19/1999	Ferre et al.		
256.		5,968,047	10/10/1999	Reed		
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258.		5,983,126	11/09/1999	Wittkamp		
259.		5,987,960	11/1999	Messner et al.		
260.		5,999,837	12/1999	Messner et al.		
261.	<i>a. d.</i>	5,999,840	12/1999	Grimson et al.		

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He. Orman

Date Considered:

12/10/4

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263.		6,006,126	12/1999	Cosman		
264.		6,024,695	02/15/2000	Greenberg et al.		
265.		6,050,724	04/2000	Schmitz et al.		
266.		6,059,718	05/2000	Taniguchi et al.		
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268.		6,073,043	06/2000	Schneider		
269.		6,104,944	08/15/2000	Martinelli		
270.		6,118,845	09/12/2000	Simon et al.		
271.		6,122,538	09/19/2000	Sliwa, Jr. et al.		
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273.		6,139,183	10/2000	Graumann		
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275.		6,156,067	12/05/2000	Bryan et al.		
276.		6,161,032	12/12/2000	Acker		
277.		6,167,296	12/2000	Shahidi		
278.		6,172,499	01/09/2001	Ashe		
279.		6,175,756	1/16/2001	Ferre et al.		
280.		6,223,067	04/24/2001	Vilsmeier		
281.	<i>a. d.</i>	6,233,476	3/2001	Strommer et al.		

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282.	<i>A. D.</i>	6,246,231	06/12/2001	Ashe		
283.		6,273,896	08/14/2001	Franck et al.		
284.		6,298,262	10/02/2001	Franck et al.		
285.		6,332,089	12/2001	Acker et al.		
286.		6,341,231	1/22/2002	Ferre et al.		
287.		6,351,659	02/26/2002	Vilsmeier		
288.		6,381,485	04/30/2002	Hunter et al.		
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291.		6,434,415	08/13/2002	Foley et al.		
292.		6,437,567	08/20/2002	Schenck et al.		
293.		6,445,943	9/3/2002	Ferre et al.		
294.		6,470,207	10/22/2002	Simon et al.		
295.		6,474,341	11/05/2002	Hunter et al.		
296.		6,493,573	12/10/2002	Martinelli et al.		
297.		6,498,944	12/24/2002	Ben-Haim et al		
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299.		6,527,443	03/04/2003	Vilsmeier et al.		
300.		6,551,325	04/22/2003	Neubauer et al.		
301.	<i>A. D.</i>	6,584,174	06/24/2003	Schubert et al.		

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M. E. Brown

Date Considered:

12/10/04

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302.	<i>l. d.</i>	6,609,022	08/19/2003	Vilsmeier et al.		
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304.		6,640,128	10/28/2003	Vilsmeier et al.		
305.		6,694,162	02/17/2004	Hartlep		
306.	<i>l. d.</i>	6,701,179	03/02/2004	Martinelli et al.		

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1.	<i>l. d.</i>	WO 01/30437 A1	05/03/2001	WIPO			
2.		WO 98/38908	09/11/1998	PCT			
3.		WO 94/24933	11/10/1994	PCT			
4.		WO 94/23647	10/27/1994	PCT			
5.		WO 96/11624	04/25/1996	PCT			
6.		WO 88/09151	12/01/1988	PCT		Abstract	
7.		WO 98/08554	03/1998	WIPO			
8.		WO 91/07726	05/30/1991	PCT			
9.		WO 92/06645	04/30/1992	PCT			
10.		WO 89/05123	06/1989	PCT			
11.	<i>l. d.</i>	WO 94/04938	03/03/1994	PCT			

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12.	<i>Q. D.</i>	WO 91/04711	04/18/1991	PCT		Abstract	
13.		WO 91/03982	04/1991	WIPO			
14.		WO 92/03090	03/05/1992	PCT			
15.		EP 0 319 844 A1	01/1988	EPO			
16.		EP 0 581 704 B1	07/27/1993	EPO		U.S. Equiv	
17.		EP 0 651 968 A1	08/1990	EPO			
18.		0350996 A1	01/1990	EPO			
19.		EP 0419729 A1	09/29/1989	EPO		U.S. Equiv	
20.		964149	03/1975	Canada			
21.		2417970	02/20/1979	France		U.S. Equiv	
22.		JP 2765738		Japan			X
23.		DE 3042343 A1	06/1982	Germany			X
24.		DE 3831278 A1	03/1989	Germany		U.S. Equiv	
25.		DE 4233978 C1	04/1994	Germany		U.S. Equiv	
26.	<i>Q. D.</i>	DE 10085137		Germany		U.S. Equiv	

Examiner:

Q. D. Kessman

Date Considered:

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
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1.	<i>l. A.</i>	"Prestige Cervical Disc System Surgical Technique", 12 pgs.
2.		Adams et al., "Orientation Aid for Head and Neck Surgeons," Innov. Tech. Biol. Med., Vol. 13, No. 4, 1992, pp. 409-424.
3.		Barrick et al., "Prophylactic Intramedullary Fixation of the Tibia for Stress Fracture in a Professional Athlete," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 241-244 (1992).
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5.		Barrick, "Distal Locking Screw Insertion Using a Cannulated Drill Bit: Technical Note," Journal of Orthopaedic Trauma, Vol. 7, No. 3, 1993, pp. 248-251.
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7.		Bouazza-Marouf et al.; "Robotic-Assisted Internal Fixation of Femoral Fractures", IMECHE., pp. 51-58 (1995)
8.		Brack et al., "Accurate X-ray Based Navigation in Computer-Assisted Orthopedic Surgery," CAR '98, pp. 716-722.
9.		Bryan, "Bryan Cervical Disc System Single Level Surgical Technique", Spinal Dynamics, 2002, pp. 1-33.
10.		Champleboux et al., "Accurate Calibration of Cameras and Range Imaging Sensors: the NPBS Method," IEEE International Conference on Robotics and Automation, Nice, France, May, 1992.
11.		Champleboux, "Utilisation de Fonctions Splines pour la Mise au Point D'un Capteur Tridimensionnel sans Contact," Quelques Applications Medicales, July 1991.
12.		Cinquin et al., "Computer Assisted Medical Interventions," IEEE Engineering in Medicine and Biology, May/June 1995, pp. 254-263.
13.		Cinquin et al., "Computer Assisted Medical Interventions," International Advanced Robotics Programme, September 1989, pp. 63-65.
14.		Feldmar et al., "3D-2D Projective Registration of Free-Form Curves and Surfaces," Rapport de recherche (Inria Sophia Antipolis), 1994, pages 1-44.
15.	<i>l. A.</i>	Foley et al., "Fundamentals of Interactive Computer Graphics," The Systems Programming Series, Chapter 7, July 1984, pp. 245-266.

Examiner: <i>l. A.</i>	Date Considered: <i>12/10/94</i>
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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16.	<i>A.D.</i>	Gildenberg et al., "Calculation of Stereotactic Coordinates from the Computed Tomographic Scan," Neurosurgery, Vol. 10, No. 5, May 1982, pp. 580-586.
17.		Gonzalez, "Digital Image Fundamentals," Digital Image Processing, Second Edition, 1987, pp. 52-54.
18.		Gottesfeld Brown et al., "Registration of Planar Film Radiographs with Computer Tomography," Proceedings of MMBIA, June '96, pp. 42-51.
19.		Guezic et al., "Registration of Computed Tomography Data to a Surgical Robot Using Fluoroscopy: A Feasibility Study," Computer Science/Mathematics, Sept. 27, 1996, 6 pages.
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21.		Hamadeh et al., "Automated 3-Dimensional Computed Tomographic and Fluoroscopic Image Registration," Computer Aided Surgery (1998), 3:11-19.
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25.		Horner et al., "A Comparison of CT-Stereotaxic Brain Biopsy Techniques," Investigative Radiology, Sep.-Oct. 1984, pp. 367-373.
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27.		Jacques et al., "A Computerized Microstereotactic Method to Approach, 3-Dimensionally Reconstruct, Remove and Adjuvantly Treat Small CNS Lesions," Applied Neurophysiology, Vol. 43, 1980, pp. 176-182.
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30.	<i>A.D.</i>	Kelly et al., "Computer-assisted stereotaxic laser resection of intra-axial brain neoplasms," Journal of Neurosurgery, Vol. 64, March 1986, pp. 427-439.

Examiner: <i>[Signature]</i>	Date Considered: <i>12/10/4</i>
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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32.		Laitinen et al., "An Adapter for Computed Tomography-Guided, Stereotaxis," Surg. Neurol., 1985, pp. 559-566.
33.		Laitinen, "Noninvasive multipurpose stereoadapter," Neurological Research, June 1987, pp. 137-141.
34.		Lavallee et al., "Computer Assisted Interventionist Imaging: The Instance of Stereotactic Brain Surgery," North-Holland MEDINFO 89, Part 1, 1989, pp. 613-617.
35.		Lavallee, "VI Adaption de la Methodologie a Quelques Applications Cliniques," Chapitre VI, pp. 133-148.
36.		Leksell et al., "Stereotaxis and Tomography - A Technical Note," ACTA Neurochirurgica, Vol. 52, 1980, pp.1-7.
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39.		Mazier et al., Chirurgie de la Colonne Vertebrale Assistee par Ordinateur: Application au Vissage Pediculaire, Innov. Tech. Biol. Med., Vol. 11, No. 5, 1990, pp. 559-566.
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42.		Reinhardt et al., "CT-Guided 'Real Time' Stereotaxy," ACTA Neurochirurgica, 1989.
43.		Roberts et al., "A frameless stereotaxic integration of computerized tomographic imaging and the operating microscope," J. Neurosurg., Vol. 65, October 1986, pp. 545-549.
44.	<i>A. Q.</i>	Rosenbaum et al., "Computerized Tomography Guided Stereotaxis: A New Approach," Applied Neurophysiology, Vol. 43, No. 3-5, 1980, pp. 172-173.

Examiner: <i>[Signature]</i>	Date Considered: <i>12/10/4</i>
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45.	<i>2-2</i>	Sautot, "Vissage Pediculaire Assiste Par Ordinateur," September 20, 1994.
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50.		Viant et al., "A Computer Assisted Orthopaedic System for Distal Locking of Intramedullary Nails," Proc. of MediMEC '95, Bristol, 1995, pp. 86-91.
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52.		Watanabe, "Neuronavigator," Igaku-no-Ayumi, Vol. 137, No. 6, May 10, 1986, pp. 1-4.
53.		Weese et al., "An Approach to 2D/3D Registration of a Vertebra in 2D X-ray Fluoroscopies with 3D CT Images," pp. 119-128.
54.		Germano, "Instrumentation, Technique and Technology", Neurosurgery, Vol. 37, No. 2, August, 1995, pgs. 348-350
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Examiner: <i>Alc. O'Man</i>	Date Considered: <i>12/10/94</i>
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2.		4,791,934	12/1988	Brunnett		
3.		4,821,731	04/1989	Martinelli, et al.		
4.		4,896,673	01/1990	Mathur, et al.		
5.		4,945,914	08/1990	Allen		
6.		4,991,579	02/1991	Allen		
7.		5,037,374	08/1991	Carol		
8.		5,054,492	10/1991	Scribner, et al.		
9.		5,094,241	03/1992	Allen		
10.		5,097,839	03/1992	Allen		
11.		5,099,846	03/1992	Hardy		
12.		5,119,817	06/1992	Allen		
13.		5,142,930	09/1992	Allen, et al.		
14.		5,150,715	09/1992	Ishiguro, et al.		
15.		5,160,337	11/1992	Cosman		
16.		5,161,536	11/1992	Vilkomerson, et al.		
17.		5,178,164	01/1993	Allen		
18.		5,186,174	02/1993	Schlöndorff, et al.		
19.		5,198,877	03/1993	Schulz		
20.		5,211,164	05/1993	Allen		
21.	LL	5,222,499	06/1993	Allen, et al.		

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Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.	<i>A-D.</i>	5,230,338	07/1993	Allen, et al.		
23.		5,230,623	07/1993	Guthrie, et al.		
24.		5,249,581	10/1993	Horbal, et al.		
25.		5,251,127	10/1993	Raab		
26.		5,251,635	10/1993	Dumoulin, et al.		
27.		5,253,647	10/1993	Takahashi, et al.		
28.		5,255,680	10/1993	Darrow, et al.		
29.		5,257,628	11/1993	Ishiguro, et al.		
30.		5,257,998	11/1993	Ota, et al.		
31.		5,261,404	11/1993	Mick, et al.		
32.		5,265,610	11/1993	Darrow, et al.		
33.		5,271,400	12/1993	Dumoolin, et al.		
34.		5,279,309	01/1994	Taylor, et al.		
35.		5,295,483	03/1994	Nowacki, et al.		
36.		5,299,254	03/1994	Dancer, et al.		
37.		5,299,288	03/1994	Glassman, et al.		
38.		5,305,203	04/1994	Raab		
39.		5,309,913	05/1994	Kormos, et al.		
40.		5,318,026	06/1994	Dumoulin, et al.		
41.	<i>A.C.</i>	5,345,938	09/1994	Nishiki, et al.		

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Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
42.	<i>a.e.</i>	5,359,417	10/1994	Müller, et al.		
43.		5,371,778	12/1994	Yanof, et al.		
44.		5,377,678	01/1995	Dumoulin, et al.		
45.		5,383,454	01/1995	Bucholz		
46.		5,391,199	02/1995	Ben-Haim		
47.		5,394,875	03/1995	Lewis, et al.		
48.		5,397,329	03/1995	Allen		
49.		5,398,684	03/1995	Hardy		
50.		5,402,801	04/1995	Taylor		
51.		5,413,573	05/1995	Koivukangas		
52.		5,423,334	06/1995	Jordan		
53.		5,443,489	08/1995	Ben-Haim		
54.		5,446,548	08/1995	Gerig, et al.		
55.		5,447,154	09/1995	Cinquin, et al.		
56.		5,480,422	01/1996	Ben-Haim		
57.		5,483,961	01/1996	Kelly, et al.		
58.		5,494,034	02/1996	Schlöndorff, et al.		
59.		5,503,320	04/1996	Webster, et al.		
60.		5,515,160	05/1996	Schulz, et al.		
61.	<i>a.e.</i>	5,517,990	05/1996	Kalfas, et al.		

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62.	<i>Q-D</i>	5,531,227	07/1996	Schneider		
63.		5,531,520	07/1996	Grimson, et al.		
64.		5,546,951	08/1996	Ben-Haim		
65.		5,558,091	09/1996	Acker, et al.		
66.		5,569,809	10/1996	Ben-Haim		
67.		5,572,999	11/1996	Funda, et al.		
68.		5,590,215	12/1996	Allen		
69.		5,592,939	01/1997	Martinelli		
70.		5,603,318	02/1997	Heilbrun, et al.		
71.		5,608,849	03/1997	King, Jr.		
72.		5,622,170	04/1997	Schulz		
73.		5,638,819	06/1997	Manwaring, et al.		
74.		5,662,111	09/1997	Cosman		
75.		5,676,673	10/1997	Ferre, et al.		
76.		5,682,890	11/1997	Kormos, et al.		
77.		5,694,945	12/1997	Ben-Haim		
78.		5,695,501	12/1997	Carol, et al.		
79.		5,697,377	12/1997	Wittkamp		
80.		5,715,822	02/1998	Watkins, et al.		
81.	<i>Q-D</i>	5,718,241	02/1998	Ben-Haim, et al.		

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Q-D

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82.	<i>A.E.</i>	5,729,129	03/1998	Acker		
83.		5,730,129	03/1998	Darrow, et al.		
84.		5,732,703	03/1998	Kalfas, et al.		
85.		5,738,096	04/1998	Ben-Haim		
86.		5,740,802	04/1998	Nafis, et al.		
87.		5,748,767	05/1998	Raab		
88.		5,752,513	05/1998	Acker, et al.		
89.		RE35,816	06/1998	Schulz		
90.		5,762,064	06/1998	Polvani		
91.		5,765,561	06/1998	Chen, et al.		
92.		5,769,861	06/1998	Vilsmeier		
93.		5,772,594	06/1998	Barrick		
94.		5,776,064	07/1998	Kalfas, et al.		
95.		5,787,866	08/1998	Sugiyama, et al.		
96.		5,787,886	08/1998	Kelly, et al.		
97.		5,797,849	08/1998	Vesely, et al.		
98.		5,829,444	11/1998	Ferre, et al.		
99.		5,833,608	11/1998	Acker		
100.		5,836,954	11/1998	Heilbrun, et al.		
101.	<i>A.E.</i>	5,840,025	11/1998	Ben-Haim		

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102.	<i>Q A</i>	5,858,967	12/1998	Cosman		
103.		5,851,183	12/1998	Bucholz		
104.		5,871,445	02/1999	Bucholz		
105.		5,871,455	02/1999	Ueno		
106.		5,873,822	02/1999	Ferre, et al.		
107.		5,891,034	04/1999	Bucholz		
108.		5,907,395	05/1999	Schulz, et al.		
109.		5,913,820	06/1999	Bladen, et al.		
110.		5,920,395	07/1999	Schulz		
111.		5,921,992	07/1999	Costales, et al.		
112.		5,947,981	09/1999	Cosman		
113.		5,967,982	10/1999	Barnett		
114.		5,971,997	10/1999	Guthrie, et al.		
115.		5,980,535	11/1999	Barnett, et al.		
116.		5,987,349	11/1999	Schulz		
117.		6,016,439	01/2000	Acker		
118.		6,019,725	02/2000	Vessely, et al.		
119.		6,021,342	02/2000	Brabrand		
120.		6,165,181	12/2000	Heilbrun, et al.		
121.	<i>Q A</i>	6,379,302	04/2002	Kessman, et al.		

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122.	<i>A-Q</i>	6,285,902	09/2001	Kienzle, et al.	<i>S</i>	<i>S</i>
123.	<i>A-Q</i>	6,216,029	04/2001	Paltieli, Yoav	<i>S</i>	<i>S</i>

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Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.	<i>A-Q</i>	EP 0 655138 B1	04/1998	EPO	<i>S</i>	<i>S</i>	<i>S</i>
2.		EP 0 894473 A2	02/1999	EPO	<i>S</i>	<i>S</i>	<i>S</i>
3.		EP 0 922 438 A1	06/1999	EPO	<i>S</i>	<i>S</i>	<i>S</i>
4.		WO 94/04938	03/1994	PCT	<i>S</i>	<i>S</i>	<i>S</i>
5.		WO 96/25881	08/1996	PCT	<i>S</i>	<i>S</i>	<i>S</i>
6.		WO 97/03609	02/1997	PCT	<i>S</i>	<i>S</i>	<i>S</i>
7.	<i>A-Q</i>	WO 99/60939	01/1999	PCT	<i>S</i>	<i>S</i>	<i>S</i>

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Ref. Desig.	Examiner's Initials	
1.	<i>A-Q</i>	International Search Report, Apr. 20, 2001.
2.		C. Davatzikos, et al., "Brain Image Registration Based on Curve Mapping," IEEE, 0-8186-5802-9/94 (1994) pp. 245-254.
3.	<i>A-Q</i>	Stereotactic Image Systems, Inc., "Affordable PC Based Graphics for Stereotactic Surgery," Stereotactic One, Scantec, Inc. undated.

Examiner:

A-Q

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4.	<i>ad</i>	K. Foley, "The StealthStation™: Three-Dimensional Image-Interactive Guidance for the Spine Surgeon," Spinal Frontiers (Apr. 1996) pp. 7-9.
5.		S. Lavallée, et al., Matching 3-D Smooth Surfaces with their 2-D Projections using 3-D Distance Maps, SPIE, Geometric Methods in Computer Vision, vol. 1570, (Jul. 25-26, 1991) pp. 322-336.
6.		Sulzer Orthopedics Ltd., Product Information, "NAVITRACK™ Computer Assisted Surgery System," SULZERMEDICA, Edition 3/98.
7.		K. Foley, "Image Guided Spine Surgery Utilizing Frameless Stereotaxy," presentation papers (undated).
8.		Product Information on The Laitinen Stereotactic System", . . . opening new doors in stereotaxis," (undated).
9.		D. Norman, et al., "Localization with the EMI Scanner," The American Journal of Roentgenology Radium Therapy and Nuclear Medicine, vol. 125, No. 4, (Dec. 1975) pp. 961-964.
10.		R. Levinthal, "Technique for Accurate Localization with the CT Scanner," Bulletin of the Los Angeles Neurological Societies, vol. 41, No. 1, (Jan. 1976) pp. 6-8.
11.		M. Bergström, et al., "Stereotaxic Computed Tomography," The American Journal of Roentgenology, vol. 127 (1976) pp. 167-170.
12.		R. Penn, et al., "Stereotactic Surgery with Image Processing of Computerized Tomographic Scans," Neurosurgery, vol. 3., No. 2 (1978) pp. 157-163.
13.		F. Munding, "Treatment of Small Cerebral Gliomas with CT-Aided Stereotaxic Curietherapy," Neuroradiology, vol. 16, (Dec. 15, 1978) pp. 564-567.
14.		D. O'Leary, "Localization of vertex lesions seen on CT scan," Journal of Neurosurgery, vol. 49, Jul. 1978), pp. 71-74.
15.		R. Brown, "A computerized tomography-computer graphics approach to stereotaxic localization," Jopurnal of Neurosurgery, vol. 50, No. 6, (Jun. 1979), pp. 715-720.
16.	<i>ad</i>	J. Boëthius, "Stereotaxic computerized tomography with a GE 8800 scanner," Journal of Neurosurgery, vol. 52, No. 6, (Jun. 1980) pp. 794-800.

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18.		G. Selvik, et al., "A Roentgen Stereophotogrammetric System," Acta Radiologica Diagnosis, vol. 24, No. 4 (1983) pp. 343-352.
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21.		J. Hatch, "Reference-Display System for the Integration of CT Scanning and the Operating Microscope," Thesis, Thayer School of Engineering, Dartmouth College, (1984) 189 pages.
22.		Y. Kwoh, "A Robot with Improved Absolute Positioning Accuracy for CT Guided Stereotactic Brain Surgery," IEEE Transactions on Biomedical Engineering, vol. 35, No. 2, (Feb. 1988) pp. 153-160.
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24.		E. Friets, "A Frameless Stereotaxic Operating Microscope for Neurosurgery," IEEE Transactions on Biomedical Engineering, vol. 36, No. 6, (Jun. 1989) pp. 608-617.
25.		S. Lavallee, "A New System for Computer Assisted Neurosurgery," IEEE Engineering in Medicine and Biology Society 11 th Annual International Conference, (1989) 2 pages.
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27.	<i>a. e.</i>	D. Levin, et al, "Multimodality 3-D views of the Brain Created from MRI and PET scans," Magnetic Resonance Imaging, Special Issue: SMRI Seventh Annual Meeting Program and Abstracts, vol. 7, Supplement 1 (1989) p. 89.

Examiner: <i>a. e. - [Signature]</i>	Date Considered: <i>12/10/4</i>
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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 10 of 13	ATTORNEY DOCKET No.	SERIAL No.
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
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31.		W. Krybus, et al., "Navigation Support for Surgery by Means of Optical Position Detection," Proceedings of the International Symposium. CAR '91 Computer Assisted Radiology, pp. 362-366.
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36.		Reported by Bill Dever, RT associate editor, "3-D in the OR, guided endoscopic surgery," Radiology Today (Feb. 1991) 2 pages.
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39.	<i>2.9</i>	P. Clarysse, "A Computer-Assisted System for 3-D Frameless Localization in Stereotaxic MRI," IEEE Transactions in Medical Imaging, vol. 10, No. 4, (Dec. 1991) pp. 523-529.

Examiner: <i>McGowan</i>	Date Considered: <i>12/10/94</i>
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41.		K. Smith, "Computer Methods for Improved Diagnostic Image Display Applied to Stereotactic Neurosurgery," Stereotactic Neurosurgery Display (Nov. 1991) pp. 371-386.
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
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52.	<i>A. J.</i>	S. Lavallee, "Image guided operating robot: a clinical application in stereotactic neurosurgery," First International Symposium on Medical Robotics and Computer Assisted Surgery, IEEE vol. 92 (Sep. 22-24, 1994) pp. 618-624.
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61.		R. Bucholz, "The Correction of Stereotactic Inaccuracy Caused by Brain Shift Using an Intraoperative Ultrasound Device," VCRMED-MRCAS'97 (Mar. 19-22, 1997) pp. 459-466.
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Examiner: <i>Ali Khan</i>	Date Considered: <i>12/10/94</i>
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64.	<i>AL</i>	C.A. Pelizzari, et al., "Three Dimensional Correlation of PET, CT and MRI Images," Abstract No. 528, The Journal of Nuclear Medicine, Abstract Book, Proceedings of the 34 th Annual Meeting, vol. 28, No. 4, (Apr. 1997) p. 682.
65.	<i>AL</i>	Product Information on Vector Vision, Sooooo Easy," BrainLAB GmbH (undated).

Examiner: <i>AL Green</i>	Date Considered: <i>12/10/4</i>
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